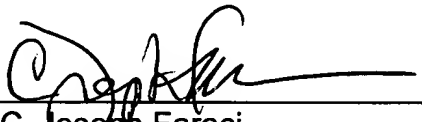


Paragraph [0060] has been amended to include the ATCC Accession number given to the *B. pertussis* cysteine desulfonase knockout mutant deposited in ATCC. Dependent Claims 9 and 10, which are directed to this deposited strain, have been added.

If necessary, the Commissioner is hereby authorized to charge payment or credit any overpayment to Deposit Account No. 02-1437 (NV1932).

If a telephone conference would expedite prosecution of this application, the Examiner is invited to telephone the undersigned attorney at (949) 474-6427.

Respectfully Submitted,


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Registration No. 32,350
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Irvine, Ca 92623-5210

Attachment: Version with Markings to Show Changes Made

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

On page 23, paragraph [0060] has been amended as follows:

-- [0060] Miscellaneous: All materials were purchased from Sigma Chemical Co. and/or of the highest grade available. Total protein was quantified by Coomassie Protein Assay® (Pierce Chemical Co., Rockford, IL). Human IgG was used as the standard. *Bordetella pertussis* strain BP536, a spontaneous streptomycin resistant mutant of strain BP338, used in the transformation experiments was obtained from Dr. Scott Stibitz at the Center for Biological Research and Evaluation, United States Food and Drug Administration (Stibitz, S. and M-S. Yang. 1991. J. Bact. 173:4288-4296). The transformed *B. pertussis* knockout mutant derived therefrom was designated strain BP536pWY and has been deposited with the American Type Culture Collection, (Manassas, VA) in accordance with the terms of the Budapest Treaty. The American Type Culture Collection has assigned *B. pertussis* strain BP536pWY ATCC number [] PTA-3254. All methods employed are all well known to those of ordinary skill in the art. See for example: Methods in Molecular Biology, vol XX, B.D. Shepard and M.S. Gilmore (eds) (1995); DNA Sequencing, L. Alphey. Bios Scientific Publishers (1997); Diagnostic and Molecular Microbiology: Principles and Applications, D.H. Persing, T.F. Smith, F.C. Tenover and T.J. White (eds) (1993) American Society for Microbiology; Molecular Biology, D. Freifelder (ed) (1987) Jones and Bartlett Publishers; and Molecular Biology of the Gene, J.D. Watson, N.H. Hopkins, J.W. Roberts, J.A. Steiz and A.M. Weiner (eds) (1987) The Bengerman/Cummings Publishing Company, Inc. --

IN THE CLAIMS:

The following new claims 9 and 10 have been added.

-- 9. The *B. pertussis* cysteine desulfonase knockout mutant of claim 1 which is identified by ATCC Accession number PTA-3254.

10. The method according to claim 2 wherein the *B. pertussis* cysteine desulfonase is identified by knockout mutant ATCC Accession number PTA-3254. --